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HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

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MARINE CORPS ORDER 4400.176

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN (MFP) FOR THE AN/MLQ-36 MOBILE
ELECTRONIC WARFARE SUPPORT SYSTEM (MEWSS)

Ref: (a) MCO P5000.10C, Marine Corps Systems Acquisition
Management Manual

Encl: (1) MFP for the AN/MLQ-36 Mobile Electronic Warfare
Support System

1. Purpose. To provide the Fleet Marine Force (FMF) commanders with logistics information and promulgate the MFP regarding support and placement in service of the Mobile Electronic Warfare Support System (MEWSS), AN/MLQ-36 (hereafter referred to as the MEWSS), per the policies established in the reference.

2. Information. This order implements Department of Defense (DoD) ILS policy.

3. Action. The gaining commands are responsible for performing the actions specified in paragraph 4 of the enclosure.

4. Reserve Applicability. This Order is not applicable to the Marine Corps Reserve.

A handwritten signature in black ink, reading "J.W. Pearson III".

J.W. PEARSON III
By direction

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FINAL

MATERIEL FIELDING PLAN

for the

**AN/MLQ-36
MOBILE ELECTRONIC WARFARE
SUPPORT SYSTEM**

Marine Corps Research, Development, and Acquisition Command
WASHINGTON, DC 20380-0001

OCTOBER 1990

ENCLOSURE (1)

TABLE OF CONTENTS

1.	INTRODUCTION	1
a.	SOURCE OF REQUIREMENT	1
b.	REFERENCES	1
c.	POINTS OF CONTACT	2
d.	FIELDING METHODOLOGY.	3
e.	REPLACED SYSTEMS/EQUIPMENT.	3
2.	SYSTEM DESCRIPTIONS	3
a.	ADMINISTRATIVE INFORMATION	3
b.	PHYSICAL CHARACTERISTICS	4
c.	OPERATIONAL CHARACTERISTICS	5
d.	ASSOCIATED SYSTEMS/EQUIPMENT	5
3.	LOGISTICS SUPPORT	6
a.	MAINTENANCE SUPPORT	6
b.	CONTRACTOR SUPPORT REQUIREMENTS	10
c.	MANPOWER, PERSONNEL, AND TRAINING	10
d.	SUPPLY SUPPORT	12
e.	SUPPORT EQUIPMENT	13
f.	TECHNICAL PUBLICATIONS	14
g.	COMPUTER RESOURCES SUPPORT	14
h.	FACILITIES	14
i.	PACKAGING, HANDLING, STORAGE, AND TRANSPORTATION	14
j.	WARRANTIES	15
4.	ACTIONS REQUIRED TO PLACE THE EQUIPMENT IN SERVICE	16
a.	GAINING COMMANDS	16
b.	MCLB, ALBANY.	19

APPENDICES

APPENDIX A - LIST OF ALLOWANCES AND DELIVERY SCHEDULES	A-1
APPENDIX B - SCHEDULE OF EVENTS	B-1
APPENDIX C - SHORTAGES	C-1
APPENDIX D - DISTRIBUTION SCHEDULE FOR INSTALLATIONS/MODIFICATION KIT	D-1
APPENDIX E - DISTRIBUTION SCHEDULE FOR SPECIAL PURPOSE TEST EQUIPMENT	E-1
APPENDIX F - DISTRIBUTION SCHEDULE FOR PROVISIONING PROJECTS	F-1
APPENDIX G - SPECIAL TOOL LIST	G-1
APPENDIX H - USING UNIT SUPPORT EQUIPMENT AND COMPONENTS	H-1
APPENDIX I - BASIC ISSUE ITEMS	I-1
APPENDIX J - DISTRIBUTION SCHEDULE FOR MANUALS	J-1
APPENDIX K - ACRONYMS	K-1

1. INTRODUCTION

a. SOURCE OF REQUIREMENT. In April 1983, Required Operational Capability (ROC) INT 1.26 was approved and promulgated by the Commandant of the Marine Corps (CMC) under the title "Mobile Electronic Warfare Support System (MEWSS)." The requirement exists for a mobile Electronic Warfare (EW) support system to provide the Marine Air-Ground Task Forces (MAGTFs) with the capability of detecting enemy emissions, determining Lines of Bearing (LOBs), and degrading enemy tactical radio communications during amphibious assaults and subsequent mechanized operations ashore. The U.S. Army Tank and Automotive Command (TACOM) Program Management Office awarded a contract to Diesel Division, General Motors of Canada (DDGM) on 30 September 1987 for the development and production of 12 vehicle suites. The 12 MEWSS have successfully completed Operational Testing (OT) and were fielded to the Radio Battalions (RadBns) in March and May 1990.

b. REFERENCES

- | | |
|--------------------|--|
| (a) MCO P5000.10C | Marine Corps Systems Acquisition Management Manual |
| (b) MCO P3000.11A | Marine Corps Automated Readiness Evaluation System Logistics |
| (c) MCBul 3000 | Table of USMC MARES |
| (d) MCO 4400.32E | Policy for the Logistics Support of New Equipment Introduced into the Marine Corps |
| (e) MCO 4408.2E | Supply and Maintenance of Cryptographic Equipment |
| (f) MCO 1040.40A | Signals Intelligence/Ground Electronic Warfare Career Development Program |
| (g) MCO P1200.7G | Military Occupational Specialties Manual |
| (h) NAVMC 2771 | Marine Corps Formal School Catalog |
| (i) MCO P5290.1 | USMC Training and Audiovisual Support Manual |
| (j) MCO P4400.79E | Provisioning Manual |
| (k) MCO P4400.82F | Regulated/Controlled Item Management Manual |
| (l) MCO P4400.150C | Consumer Level Supply Policy Manual |
| (m) MCO 4105.1A | Weapons Systems/Equipment Supply Management within the Marine Corps |

c. POINTS OF CONTACT

<u>Title</u>	<u>Name</u>	<u>Address/Code</u>	<u>Telephone</u>
Program Manager	Col J.A. Bicknas	MCRDAC/C2I Quantico, VA	AV 278-2101 (703) 640-2101
Assistant Program Manager	Maj D. Buck	MCRDAC/C2IE Quantico, VA	AV 278-2389 (703) 640-2389
Project Officer	Capt D. Allpress	MCRDAC/C2IE Quantico, VA	AV 278-2389 (703) 640-2389
Assistant Program Manager, Logistics	Maj P. Leon	MCRDAC/C2IL Quantico, VA	AV 278-2581 (703) 640-2581
Integrated Logistics Support Officer	1stLt G. Hartless	MCRDAC/C2IL Quantico, VA	AV 278-2581 (703) 640-2581
WS/EM (Electronics)	Mr. T. Reynolds	MCLB/848-3 Albany, GA	AV 567-6582 (912) 439-6582
EQUIP SPEC (Electronics)	Mr. G. Abbett	MCLB/848-3 Albany, GA	AV 567-5421 (912) 439-5421
WS/EM (Auto Hull)	Ms. S. Wright	MCLB/834-2 Albany, GA	AV 567-6586 (912) 439-6586
EQUIP SPEC (Auto Hull)	Mr. J. Adams	MCLB/834-2 Albany, GA	AV 567-6548 (912) 439-6548
Field Rep.	Maj Destefanis	1st RadBn (S-4)	(808) 257-5204
Field Rep.	Maj Watson	1st RadBn (S-3)	(808) 257-3211
Field Rep.	Maj Witmer	2d RadBn (S-3)	(919) 451-5316
Field Rep.	Maj Sowl	2d RadBn (S-4)	(919) 451-5114
Field Rep.	Mr. Walters	U.S. Army TACOM	AV 574-8365

d. FIELDING METHODOLOGY

(1) General Fielding Plan. The system has already been fielded horizontally to achieve field operational capability in coordination with operational requirements and plans. This MFP provides current information and guidance for all using and support activities of the MEWSS in accordance with reference (a). The publications information has also been verified; this plan contains a comprehensive listing. Delivery dates are listed in appendix A. A schedule of past and future program-related events is provided in appendix B. Appendix C identifies the equipment shortage and appendix D lists the distribution schedule for the modification kits. Appendix E is not applicable to the MEWSS program.

(2) Method of Fielding. Six MEWSS were delivered to the 2d RadBn, Fleet Marine Force, Atlantic (FMFLANT), Camp LeJeune, NC in March 1990. Five MEWSS were delivered to the 1st RadBn, Fleet Marine Force, Pacific (FMFPAC), Marine Corps Air Station (MCAS), Kaneohe Bay, HI in May 1990.

Two MEWSS prototypes were deployed to the RadBns and used for user evaluation in support of the 1986 Milestone III decision. One prototype will be Government-Furnished Equipment (GFE) to a contractor for the MEWSS Product Improvement Program (PIP) vehicle. The other prototype will be transferred to another development program within Marine Corps Research, Development, and Acquisition Command (MCRDAC). The MEWSS and associated tools have been force-fed to field commands.

e. REPLACED SYSTEMS/EQUIPMENT. None.

2. SYSTEM DESCRIPTION

a. ADMINISTRATIVE INFORMATION

(1) Nomenclature: Mobile Electronic Warfare Support System

(2) Table of Authorized Materiel Control Number (TAMCN): A0966VIIGP (ID Number 09999A)

(3) Stores Account Code (SAC): 3 (Weapon System Code: 5J)

(4) National Stock Number (NSN): 5865-01-236-4235

(5) Unit of Issue: Each

(6) Unit Cost: \$1,275,000

(7) Support Cost: To be provided by Marine Corps Logistics Base, Albany (MCLBA) during staffing of this plan.

(8) Readiness Reporting: Readiness reporting for the MEWSS will be in accordance with references (b), (c), and (d) of this document. Unless otherwise directed by Headquarters, Marine Corps (HQMC), the Marine Automated Readiness Evaluation System (MARES) reports will commence once the MEWSS has been 85 percent fielded.

b. PHYSICAL CHARACTERISTICS

CHARACTERISTIC	OPERATIONAL CONFIGURATION	STORAGE/SHIPPING CONFIGURATION
Length	258 in	258 in
Width	101 in	101 in
Height	106 in	106 in
Square	181 ft(2)	181 ft(2)
Cube	1598.5 ft(3)	1598.5 ft(3)
Weight	28,500 lbs	26,000 lbs
Stowage	Area 181 ft(2)	Area 181 ft(2)
Shore Power Requirements	110/220 VAC, 30 kW,60 Hz, 3-phase*	

* Note: This is a Using Unit Responsible Item. The 30 kW generator will provide power to the MEWSS when the vehicle power source is off.

c. OPERATIONAL CHARACTERISTICS. The MEWSS consists of two separate but interrelated EW disciplines working together to accomplish their common mission. These disciplines are Electronic Warfare Support Measures (ESM) and Electronic Countermeasures (ECM). Together these disciplines result in near real-time Signals Intelligence (SIGINT) reports concerning enemy positions and communications activities. When employed in amphibious operations, the MEWSS will be transported ashore by landing craft or helicopter. The MEWSS provides ESM and ECM to prevent or reduce the enemy's effective use of radiated electromagnetic energy by denying them access to the usable frequency spectrum. The methods used by the MEWSS to accomplish this mission include the active disruption and degradation of enemy communications-electronics receivers. The MEWSS provides highly mobile EW support with light armor protection for high threat, mechanized operations as well as for amphibious operations. The MEWSS will be capable of meeting the following criteria for the North Atlantic Treaty Organization (NATO) Reference Mobility Model:

- * 20% no-go German dry conditions; V(80): 8 mph
(12.9 km/h)
- * 25% no-go Mid-East dry condition; V(75): 10 mph
(16.1 km/h)
- * 30% no-go German snow condition; V(70): 9 mph
(14.5 km/h)
- * Test mileage:
 - ** Cross-country - 40%
 - ** Primary roads - 30%
 - ** Secondary roads - 30%
- * NATO-compatible slave receptacles

d. ASSOCIATED SYSTEMS/EQUIPMENT. The MEWSS configuration consists of:

NOMENCLATURE	NSN	TAMCN
Light Armored Vehicle	2320-01-123-1610	E0940VIIBP
Communications Jamming System, Racal RJS 3100	5865-01-188-3309	A0412VIIG
Direction Finder Set, AN/PRD-10*	5825-01-166-8104	A0516VIIG
RT-246/VRC	5820-00-892-0623	N/A
Radio Receiver, (VHF/UHF)	5895-01-213-9543	N/A
Tempest Secure Intercom	BCC 600 System	N/A
RT-524B/VRC	5820-00-892-0622	N/A

* Due to a critical shortage of this component, the MEWSS was fielded without the AN/PRD-10. This component will be supplied through the RadBn inventory.

3. LOGISTICS SUPPORT

a. MAINTENANCE SUPPORT. In a tactical situation, each MEWSS is expected to operate nonstop, 24 hours a day. There are no scheduled shutdowns for maintenance or off-line system tests. When equipment failure occurs, operators should detect faults, reconfigure the system as necessary to keep the remaining equipment operational, and notify maintenance personnel of the need for corrective maintenance. Maintenance personnel, using authorized test equipment, should isolate the faulty assembly and make repairs by replacing the faulty equipment. The MEWSS maintenance plan provides for three levels (five echelons) of maintenance: organizational, intermediate, and depot, as described in the following paragraphs:

(1) Organizational Level Maintenance. RadBn system operators will perform Preventive Maintenance (PM), including visual inspection, test, cleaning, tightening, and other minor adjustments on the MEWSS electronic suite of equipment. In addition, they will perform operational checks using authorized tools, test equipment, and connecting cable assemblies. Organizational maintenance personnel will perform minor cable and cable connector repair and replace minor parts (e.g., fuses, bulbs, filters, knobs). Organizational level maintenance will include fault isolation to the assembly level (such as the RT-524B/VRC), replacement of assembly, and evacuation to the next higher maintenance level. In addition, organization

maintenance will perform those organizational maintenance tasks prescribed by applicable technical publications. Organizational maintenance consists of first and second echelon maintenance as described below:

(a) Electronics Suite

1 First Echelon. First echelon maintenance will consist of basic turn-on/turn-off procedures, PM, equipment installation, and parts replacement not requiring technical skills.

2 Second Echelon. Second echelon maintenance will consist of inspecting equipment, performing PM, diagnosing malfunctions, isolating malfunctions to the faulty assembly, removing and replacing the faulty assembly, verifying that the fault has been corrected, and installing equipment.

(b) Vehicle Suite

1 First Echelon. First echelon maintenance will be accomplished by the crew of the vehicle. Maintenance functions will be limited to the performance of PM (e.g., operator/crew checks and services, and scheduled maintenance services). This includes visual and tactical inspections of external and other easily accessible components, as well as lubrication, cleaning, preserving, tightening, and minor adjustments to easily accessible mechanical, electrical, hydraulic, and pneumatic systems.

2 Second Echelon. Maintenance personnel organic to the RadBn motor transport section will perform maintenance at this level. Maintenance functions will include:

- * Diagnosis and fault isolation of equipment malfunctions which can be readily traced to defective major assemblies or modular components using simple go/no-go indicators, installed instrumentation, or external diagnostic and fault isolation devices that are easy to use and interpret.

- * Replacement of major assemblies or modular components identified as worn, damaged, or defective if they can be readily removed and installed with common tools and do not require critical adjustment, or alignment before or after installation.
- * Replacement of easily accessible, unserviceable piece parts not requiring special tools or test equipment (e.g., knobs, lamps, fan belts, wheels, tires, filter elements, firing pins, gages, expendable antennas, etc.).
- * Evacuation for repair or replacement of malfunctioning end items, major assemblies, and/or modular components which are beyond the authorized repair capability or capacity at the organizational level.

(2) Intermediate Level Maintenance. For RadBn-unique components, intermediate maintenance will be performed by RadBn intermediate maintenance personnel at Headquarters and Service Company (H&S Company). For other components, intermediate maintenance will be performed by the Force Service Support Group (FSSG), and the Brigade Service Support Group (BSSG), 1st Marine Brigade. Intermediate maintenance personnel will provide support to the organizational maintenance level through the use of direct exchange modules. The Concentration of the intermediate maintenance effort will be on the repair of modules for the Direct Exchange Program (DX). Intermediate level maintenance consists of third and fourth echelon maintenance.

(a) Electronics Suite

1 Third Echelon. Third echelon maintenance will consist of fault verification, isolation to the direct exchange level, and the replacement of the direct exchange module or circuit card. This will include inspecting equipment, diagnosing malfunctions, isolating malfunctions to the assembly level, replacing the faulty assembly, and verifying fault corrections. This maintenance will normally be accomplished at the system site by maintenance personnel using authorized Test Measurement and Diagnostic Equipment (TMDE). For cases where repairs cannot be made, the entire assembly will be evacuated to the intermediate maintenance facility for fourth echelon maintenance.

2 Fourth Echelon. Fourth echelon maintenance personnel will troubleshoot, inspect, test, adjust equipment and modules, and repair circuit cards (when authorized) with the aid of authorized TMDE and technical publications. This maintenance level also includes the replacement of discrete component parts; the repair of the hard/back panel wiring; authorized electronic alignments and adjustments. Maintenance on the Communications Security (COMSEC) items will be performed by trained COMSEC repairmen in accordance with reference (e).

(b) Vehicle Suite

1 Third Echelon. Third Echelon maintenance will consist of fault verification, isolation to the direct exchange level, and the replacement of the direct exchange module. This will include inspecting equipment, diagnosing malfunctions, isolating malfunctions to the assembly level, replacing faulty assemblies, and verifying fault corrections. This maintenance will normally be accomplished at the system site by maintenance personnel using authorized TMDE. For cases where repairs cannot be made, the entire assembly will be evacuated to the intermediate maintenance facility for fourth echelon maintenance.

2 Fourth Echelon. Fourth echelon maintenance personnel will troubleshoot, inspect, test, adjust equipment and modules, and repair modules (when authorized) with the aid of authorized TMDE and technical publications. This maintenance level also includes the replacement of discrete component parts; the repair of the hard/back panel wiring; authorized electronic alignments and adjustments; and the performance of heavy body, hull and frame repair, including steel and aluminum welding, wood and machine cutting, pressing, shearing, sanding, and painting.

(3) Depot Level Maintenance. MCLBA is the depot or fifth echelon maintenance facility for the system. Depot maintenance personnel will have the capability to repair and rebuild to the lowest repairable level. In addition to its repair capability, MCLBA will provide structural and heavy machine shop support. The responsibility for depot support for particular secondary items may be assigned to other military service facilities via Depot Maintenance Interservice Support Agreements (DMISA).

(4) Calibration. Marine Corps calibration requirements are germane to TMDE only. Calibration requirements for TMDE are determined by Metrology Engineering Center, NWAC, Corona, CA and identified in TI-4733-15/13.

b. CONTRACTOR SUPPORT REQUIREMENTS. The contractor will provide technical representative support for operation and maintenance of the MEWSS for the first 250 days after Initial Operational Capability (IOC).

c. MANPOWER, PERSONNEL, AND TRAINING

(1) Personnel Requirements. Personnel requirements to satisfy the operation, maintenance, logistics support, and instructional support of the MEWSS have been established based upon system design specifications and experience with other systems performing similar functions.

(a) Operator Requirements. All operators have been drawn from Military Occupational Specialty (MOS) 26XX. Each RadBn is staffed with six MEWSS operator teams. Each team is composed of:

<u>Rank</u>	<u>MOS</u>	<u>Position</u>
1-Sgt	2629	EW Supervisor/Vehicle Cdr
1-Cpl	2621	EW Operator
1-LCpl	267X	EW Operator
1-LCpl	2621	Vehicle Driver/EW Operator

Total MEWSS operator staffing requirements for the Marine Corps are:

<u>MOS</u>	<u>1st RadBn</u>	<u>2d RadBn</u>	<u>Total</u>
2629	6-Sgt	6-Sgt	12
2621	6-Cpl	6-Cpl	12
267X	6-LCpl	6-LCpl	12
2621	6-LCpl	6-LCpl	12
			<hr/> 48

(b) Maintenance/Support Requirements. Additional maintenance and support personnel will be required in the RadBns and the logistics support group as follows:

<u>MOS</u>	<u>1st RadBn</u>	<u>2d RadBn</u>	<u>1st BSSG</u>
2841	1-Cpl	1-Cpl	
2861	2-Sgt	2-Sgt	
2147	1-SSgt	1-SSgt	2-Cpl
	1-Cpl	1-Sgt	
	2-LCpl	2-Cpl	

(c) The MEWSS Manpower and Training Plan (MTP). The MTP addresses the number of new operator and maintenance 1 billets created above. A total of 48 billets (12 - Sgts, MOS 2629; 12 - Cpls, MOS 2621; 12 - LCpls, MOS 267X; and 12 - LCpls, MOS 2621) will be required to operate the MEWSS. All billets have been created by realignment of current billets (same grade and MOS) within the RadBn Table of Organization (T/O).

(2) Training Requirements. MOS 26XX will follow the formal school training program and pipeline for collection and signals analysis personnel, as specified in references (f) and (g). Marines enrolled in this MOS will become familiar with Tactical Signals Intelligence/General Electronic Warfare (SIGINT/EW) operations and EW equipment to include ECM and radio direction-finding functions. The Formal Schools Catalog, reference(h), once updated, will contain the following planning information relative to MEWSS training:

- * Formal school
- * Location
- * Length
- * Frequency
- * Purpose
- * Scope
- * Prerequisites

(a) Maintenance Support Personnel. All maintenance support personnel will continue to follow the same program and pipeline path identified in the previous paragraph. No new formal courses will be required except the LAV maintenance course. Additional support course requirements are:

<u>MOS</u>	<u>Course</u>	<u>Additional Yearly Quotas</u>
2147	Light Armored Vehicles Repair Course (Basic)	2
28XX	Basic Electronic Course	2
2841	Radio Fundamentals	2
	Ground Radio Repair	2
	Ground Organization Radio Maintenance	2
2861	Technician Theory Course	2
	Radio Technician Course	2

All assigned Marines will enter into an extensive On-the-Job Training (OJT) program in the RadBns.

(b) Correspondence Courses. Currently no correspondence courses are available for a unit or individual training program.

(3) Training Support Items. If unit commanders desire to utilize training aids for OJT, they should request training support resources from local training and audiovisual support centers in accordance with reference (i). There are special training support items required for MEWSS training (i.e., standard electronic training films).

d. SUPPLY SUPPORT

(1) MCLBA, in accordance with the provisions of reference(j), will be responsible for the identification and acquisition of initial and replenishment support items, spares, and repair parts required to support MEWSS operations. A distribution schedule for provisioning projects is listed in appendix F. Initial issue project codes are:

- * T9H - Recommended Buy List Issue
- * C5U - Auto Hull
- * C5T - Electronics

(2) Retrofit and Modification Kits. N/A.

e. SUPPORT EQUIPMENT

(1) Special Tools. Special tools required to maintain both the electronics and auto hull assembly (2d-4th echelon) of the MEWSS have been included in appendix G. These tools will be assembled into tool boxes and added to the appropriate unit's T/E. In addition to those tools listed for 2d-4th echelon electronic maintenance, certain circuit cards will be identified to be used for troubleshooting the Racal communications equipment. These circuit cards will be SL-3 components to the 2d-4th echelon maintenance tool box, not to be used as repair parts.

(2) Common Tools

TOOL BOX	TAMCN
Auto Hull Tool Boxes:	
Common No. 1, 2d echelon	C9672
Common No. 2, 3rd and 4th echelon	C9673
LAV 2d echelon	E2660
LAV 3rd echelon	E2658
LAV 4th echelon	E2659
Electronics Box:	
Electronics Maintenance, MK-2569	H7920
M240 Machine Gun Tool Boxes:	
Organizational	E2829
BSSG	E2656

(3) Special Purpose Test Equipment. None required.

(4) General Purpose Test Equipment. The MEWSS will be equipped with a Support Test Equipment/Internal Combustion Engine (STE/ICE) diagnostic connector assembly, and therefore will not require general purpose test equipment.

(5) Test Program Sets. N/A.

(6) Other Support Equipment. See appendix H for using unit support equipment and components required to operate and support the MEWSS and appendix I for a listing of Basic Issue Items (BIIs) which will be provided with initial delivery of MEWSS.

f. TECHNICAL PUBLICATIONS. System technical manuals (TMs) and an SL-4 are under development for operation and maintenance of the MEWSS. These manuals will be used in conjunction with the LAV-25 manuals. When the manuals are completed and a publications control number (PCN) is assigned, using units may request those publications not currently held through normal supply channels from Marine Corps Logistics Base (Code 876), Albany, Georgia 31704-5000. Appendix J provides a partial listing. One draft operator's manual and one draft maintenance manual were delivered with each vehicle.

g. COMPUTER RESOURCES SUPPORT. N/A.

h. FACILITIES

(1) Existing Facilities. The MEWSS electronics suite and LAV will be fully supported through the use of existing facilities of the RadBns, FSSG, and BSSG.

(2) New Facilities. N/A.

(3) Interim Facilities. N/A.

i. PACKAGING, HANDLING, STORAGE, AND TRANSPORTATION

(1) Packaging. The equipment, components, and spare parts were prepared for delivery in accordance with MIL-E-17555. The MEWSS vehicle was prepared for delivery in accordance with MIL-S-55507. All preservation, packaging, and packing accomplished by the contractor was in accordance with the requirements specified in the contract or purchase order.

(2) Handling. Materiel returned for repair will, whenever possible, be shipped in the reusable container in which the item was received. When such containers are not available, interior blocking, bracing, and cushioning will be applied to prevent damage of contents during handling and shipping operations. NAVSUP PUB 484, "Supply Afloat Packaging Procedures," contains packaging techniques that may be used when reusable containers are not available.

(3) Storage. There are no special storage requirements associated with the MEWSS.

(4) Transportation. Eleven MEWSS were shipped directly from the contractor to the RadBns; delivery dates are contained in appendix A. One MEWSS will be shipped to the 1st RadBn upon completion of the TM verification. Carrier transportability capabilities are as follows:

(a) Air Transportability. The vehicle is capable of self-loading and transport by C5A, C141, and C130 aircraft (references AR 70-47, AFSC-DH 1-11 and MIL-A-8421). The maximum number of MEWSS vehicles that can be transported in each aircraft type is as follows: C130, one; C141, two; C5A, eight.

(b) Ship-to-Shore. The vehicle is capable of being transported by amphibious ships, to include those ships in Maritime Prepositioned Shipping (MPS), Landing Craft Utility (LCU), Landing Craft Mechanized (LCM), and Landing Craft Air Cushioned (LCAC).

(c) Helicopter Heavy Lift. The vehicle, at operational Gross Vehicle Weight (GVW), will be externally transportable by the CH53E helicopter using standard slings without spreader bars. No damage to the slings or vehicle should occur during transport.

j. WARRANTIES. Warranties will be provided in accordance with guidance contained in reference (d).

(1) Coverage and Duration. The MEWSS warranties for workmanship and material apply to all items, components, and systems on the vehicle, with the exception of GFE/Government-Furnished Material (GFM), or government-procured and -installed equipment. The warranties will extend from the final date of acceptance by U.S. Government. However, engines and all contractor-supplied equipment will be warranted by the contractor for the following periods: 12 months, 150 hours of engine operation, or 3,000 miles, whichever occurs first. The starting point for hours of operation and mileage will be the time of acceptance cited on the DD Form 250 (Materiel Inspection and Receiving Report). The duration of the warranty will be extended by the amount of time that the vehicle is in storage up to a maximum of six months (including MPS and Prepositioned War Reserve (PWR)).

(2) Field Actions to Administer Warranty. Reference (d) contains warranty procedures for equipment procured under contract subsequent to March 1984. Highlights of these procedures are as follows:

(a) A warranty coordinator has been appointed by the Commanding General (CG), FMFLANT and CG, FMFPAC as the single point of contact.

(b) All warranty disputes will be coordinated by the Marine Corps Warranty Administrator, MCLBA Weapons System/Equipment Manager (WS/EM), Mr. Tom Reynolds, for resolution and review. Disputes will be resolved by the local contracting officer.

(c) Prior to placing MEWSS in storage, and at the time of its withdrawal from storage, the contractor must be notified through the Warranty Administrator. The equipment storage report provided with each MEWSS is the action document.

(d) The actions associated with notification of warranty defect, storage procedures, safety recall, and dispute claims are contained in enclosure (2) to reference (d). This directive also includes all the government forms required to administer the MEWSS warranty.

(3) Warranty Items, Components, and Systems. The system TM and the SL-3 components list contain warranty item NSNs.

4. ACTIONS REQUIRED TO PLACE EQUIPMENT IN SERVICE

a. GAINING COMMANDS. Commands that have received the MEWSS will ensure that sufficient numbers of instructors and key personnel already trained in the operation and maintenance of the equipment are on-hand to ensure a smooth transition to the operational environment.

(1) Actions to Place Item in Service. The following actions are required by the gaining commands in order to place the MEWSS in service.

The MEWSS will be placed on administrative deadline and not put in service until:

- * The appropriate technical inspection has been performed by the appropriate intermediate maintenance activity and deficiencies have been reported;
- * Adequate stock levels and allowances of initial support items are on-hand;

- * Trained operators and maintainers are available at the using unit;
- * Budgeting data for replenishment of initial issue has been reported to the appropriate FMF Commander;
- * Compliance with local standing operating procedures relative to the fielding of new materiel and logistics support is accomplished;
- * MEWSS has been reported as a controlled item in accordance with reference (k); and
- * Approval to place the MEWSS in service has been granted by the CG, FMFLANT and CG, FMFPAC, as appropriate.

Upon receipt, using units' responsibilities included:

- * Inventory the equipment per its enclosed packing list and provide a signed copy to CG, MCLBA (Code 845), with an information copy to MCRDAC (Code C2IE), Quantico, VA, not later than 10 working days after receipt;
- * Arrange for a technical inspection by intermediate maintenance personnel;
- * Report the MEWSS as a controlled item in accordance with reference (k);
- * Submit requests for any required increase in allowances to the CMC (Code LPM-3) in accordance with instructions contained in reference (1);
- * Requisition all publications listed in appendix J not currently held;
- * Request communications security equipment and appropriate key lists; and
- * Accept and perform system checkout.

In addition to the foregoing, the CG, FMFLANT and CG, FMFPAC reported to CMC (Code INT); CG, MCRDAC (Code C2IE), and CG, MCLBA (Code 848) the date MEWSS was placed in service. MCLBA's responsibilities include:

- * Assuming management logistics support of the MEWSS once placed in service, in accordance with reference (1);
- * Initiating action to register the Marine Corps as a user on parts managed by other service Item Managers (IMs); and
- * Preparing and distributing to all Force Commanders, on a quarterly basis, a report identifying initial issue projects released or planned to be released, in accordance with procedures outlined in reference (m).

(2) Materiel Defects Reporting. Upon receipt of allowances, qualified personnel unpacked, inventoried, assembled, and inspected the MEWSS. An appropriate technical inspection was performed by intermediate maintenance activity personnel, and any deficiencies were reported in accordance with MCO 4855.10. For deficiencies identified, Quality Deficiency Reports (QDRs) were completed in accordance with TM 4700-15/IE and local standing operating procedures. The MCRDAC Project Officer will be advised of deficiencies requiring immediate attention.

(3) Retrograde of Existing Equipment. There is no requirement for retrograde action.

(4) Obtaining Supporting Consumables. To acquire consumable supplies, using units will submit their requirements in accordance with standard supply procedures.

(5) Security Required. Special security is not required during transportation, storage, or operation of the MEWSS, unless otherwise directed by local security procedures issued by a competent authority.

(6) Controlled Item Reporting. The MEWSS should be reported as a controlled item in accordance with reference (k).

b. MCLB, ALBANY. Unique responsibilities of the MCLBA when issuing the MEWSS include:

(1) Assuming management for logistics support of the MEWSS once placed in service in accordance with reference (m).

(2) Preparing and distributing to all force commanders, on a quarterly basis, a report identifying initial issue projects released or planned to be released, in accordance with procedures outlined in reference (d).

(3) Initiating action to register the Marine Corps as a user on parts managed by other service IMs.

APPENDIX A
LIST OF ALLOWANCES AND DELIVERY SCHEDULES

<u>T/E NO.</u>	<u>UNIT TITLE</u>	<u>UNIT ALLOWANCE</u>	<u>ACTUAL ALLOWANCE</u>	<u>CURRENT PLANNED FY 90 QTR</u>			
				<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
N4637	H&S Co. 1st RadBn	6	6	5	1		
N4737	H&S Co. 2d RadBn	6	6	6			

APPENDIX B

SCHEDULE OF EVENTS

The following are the major events leading to full operational capability in the FMFs:

1. TRAINING

a. Auto Hull Chassis

1st RadBn - Completed December 88

2nd RadBn - Completed January 89

b. Electronic Suite

Operation/Operator Maintenance: 3-7 April 89, Canadian Force Training Activity (CFTA), Medford, Ontario, Canada.

Organizational/Intermediate Maintenance: 10-28 April 89, Diesel Division, General Motors of Canada (DDGM), Ontario, Canada.

2. MEWSS TM/SL-4

Contractor Validation 20 February 1989-17 March 1989

Government Verification 22 May 1990-20 July 1990

Camera-Ready Copy 31 October 1990 (Estimate)

Distribution to RadBn 31 January 1991 (Estimate)

3. MEWSS HANDOFF

<u>Unit</u>	<u>Qty</u>	<u>Date</u>
1st RadBn	5	May 90
	1	Dec 90
2d RadBn	6	Mar 90

APPENDIX C

SHORTAGES

There is a critical shortage of AN/PRD-10s to support the MEWSS system. Instructions will be provided by MCLBA detailing procedures for using units concerning this shortage.

APPENDIX D

DISTRIBUTION SCHEDULE FOR INSTALLATIONS/MODIFICATION KITS

<u>FISCAL</u> <u>YEAR</u>	<u>PRODUCT IMPROVEMENT</u> <u>MODIFICATION KITS</u>
92	2
93	2
94	2
95	6

APPENDIX E

DISTRIBUTION SCHEDULE FOR SPECIAL PURPOSE TEST EQUIPMENT

THIS APPENDIX IS NOT APPLICABLE

TO THE MEWSS

APPENDIX F
DISTRIBUTION SCHEDULE FOR PROVISIONING PROJECTS

PROV. <u>PROJ#</u>	EST. FIELD DATE	INITIAL ISSUE <u>PARTS RELEASE DATE</u>	<u>CONSIGNEE</u>	<u>STATUS</u>
T9H	December 90	November 90	1st & 2d RadBn	98%
C5T	September 90	June 90	1st & 2d RadBn	100%
C5U	December 90	November 90	1st & 2d RadBn	90%

APPENDIX G

MEWSS SPECIAL TOOLS 2D ECHELON AUTO HULL AND A/C 1ST AND 2D RADIO BATTALION

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N4637</u>	<u>N4737</u>	<u>TOTAL</u>
A203	SEPARATOR TIEROD	2	2	4
407143	GAGE, MANIFOLD	2	2	4
916	CHECKER, OIL LEVEL	2	2	4
921	GAGE, OIL	2	2	4
407215	PUMP VACUUM	2	2	4
311250W4910	KNIFE THERMAL 50W	2	2	4
4210-00-889-1774	HOSE ASSEMBLY NONMETALLIC	2	2	4
4240-00-203-3804	GOGGLES INDUSTRIAL	2	2	4
4910-00-273-3660	PLUG SET	2	2	4
4920-01-281-3087	HOSE ASSEMBLY	2	2	4
4933-01-146-7109	ACCUMULATOR CHARGING	2	2	4
4940-00-956-6303	REFLECTOR	2	2	4
4940-01-289-239	GAGE ASSEMBLY HYDRAULIC	2	2	4
5120-00-016-6382	TURRET HEAD ASSEMBLY	2	2	4
5120-00-061-8542	HAMMER, HAND 12 OZ.	2	2	4
5120-00-061-8545	HAMMER, HAND 1.5 #	2	2	4
5120-00-061-8546	HAMMER, HAND 2 #	2	2	4
5120-00-079-4599	INSERTER, ELECTRICAL	2	2	4
5120-00-113-3616	HAMMER, HAND 4 #	2	2	4
5120-00-132-6913	CRIMPING TOOL	2	2	4
5120-00-165-3912	CRIMPING TOOL, TERMINAL	2	2	4
5120-00-169-2986	MULTIPLIER, TORQUE	2	2	4
5120-00-184-8397	CROWFOOT ATTACHMENT	2	2	4
5120-00-184-8398	CROWFOOT ATTACHMENT	2	2	4
5120-00-184-8400	CROWFOOT ATTACHMENT	2	2	4
5120-00-184-8405	CROWFOOT ATTACHMENT	2	2	4
5120-00-184-8410	CROWFOOT ATTACHMENT	2	2	4
5120-00-184-8412	CROWFOOT ATTACHMENT	2	2	4
5120-00-187-7123	WRENCH, OPEN END	2	2	4
5120-00-187-7126	WRENCH, OPEN END	2	2	4
5120-00-189-7924	SOCKET, WRENCH	2	2	4
5120-00-189-7932	SOCKET, WRENCH	2	2	4
5120-00-189-7946	SOCKET, WRENCH	2	2	4
5120-00-189-7985	SOCKET, WRENCH	2	2	4
5120-00-203-4804	WRENCH, OPEN END	2	2	4
5120-00-203-4806	WRENCH, OPEN END	2	2	4
5120-00-203-4807	WRENCH, OPEN END	2	2	4
5120-00-203-4810	WRENCH, OPEN END	2	2	4
5120-00-203-4811	WRENCH, OPEN END	2	2	4
5120-00-203-4814	WRENCH, OPEN END	2	2	4

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N4637</u>	<u>N4737</u>	<u>TOTAL</u>
5120-00-203-4815	WRENCH, OPEN END	2	2	4
5120-00-203-6431	CLAMP C	2	2	4
5120-00-221-7063	SCRIBER, MACHINIST	2	2	4
5120-00-222-1612	CLAMP C	2	2	4
5120-00-223-1010	PUNCH, DRIVE PIN	2	2	4
5120-00-223-7396	PLIERS, SLIP JOINT	2	2	4
5120-00-224-3156	WRENCH, OPEN END BOX	2	2	4
5120-00-224-3158	WRENCH, OPEN & BOX	2	2	4
5120-00-228-9516	WRENCH, BOX & OPEN	2	2	4
5120-00-229-2772	CROWFOOT ATTACHMENT	2	2	4
5120-00-229-2773	CROWFOOT ATTACHMENT	2	2	4
5120-00-235-5870	SOCKET, WRENCH	2	2	4
5120-00-239-0038	PUNCH, DRIVE PIN	2	2	4
5120-00-240-8703	ADAPTER SOCKET WRENCH	2	2	4
5120-00-243-7338	SOCKET WRENCH, ATTACHMENT	2	2	4
5120-00-263-4144	SOCKET, WRENCH	2	2	4
5120-00-264-3795	WRENCH, ADJUSTABLE	2	2	4
5120-00-277-4243	WRENCH, PLIER	2	2	4
5120-00-277-7025	WRENCH, OPEN END	2	2	4
5120-00-277-8300	WRENCH, OPEN END	2	2	4
5120-00-277-8301	WRENCH, OPEN END	2	2	4
5120-00-277-8303	WRENCH, BOX	2	2	4
5120-00-288-6468	WRENCH, SPANNER	2	2	4
5120-00-449-8083	WRENCH, ADJUSTABLE	2	2	4
5120-00-483-8383	CROWFOOT, ATTACHMENT	2	2	4
5120-00-517-7021	CROWFOOT, ATTACHMENT	2	2	4
5120-00-541-4071	CROWFOOT, ATTACHMENT	2	2	4
5120-00-554-7292	WRENCH, TORQUE	2	2	4
5120-00-555-2353	SOCKET WRENCH ATTACHMENT	2	2	4
5120-00-585-2383	HAMMER, HAND	2	2	4
5120-00-585-8202	PACK, HAMMER, INSERT	2	2	4
5120-00-595-8213	CROWFOOT, ATTACHMENT	2	2	4
5120-00-595-9069	WRENCH, TORQUE	2	2	4
5120-00-595-9305	PULLER, MECHANICAL	2	2	4
5120-00-596-0938	SOCKET WRENCH ATTACHMENT	2	2	4
5120-00-596-1072	FACE, HAMMER, INSERT	2	2	4
5120-00-596-9313	CRIMPTOOL, TERMINAL	2	2	4
5120-00-629-9781	ALIGNMENT STUDS FLYWHEEL	2	2	4
5120-00-640-6365	WRENCH, TORQUE	2	2	4
5120-00-699-3589	PUNCH, DRIVE PIN	2	2	4
5120-00-737-7964	WRENCH, OPEN END	2	2	4
5120-00-752-9755	PLIERS, RETAINING	2	2	4
5120-00-781-7891	INSTALLING TOOL, PLATE	2	2	4
45120-00-892-562	PLIERS, RETAINING	2	2	4
5120-00-892-6089	WRENCH, BOX & OPEN	2	2	4
5120-00-903-8545	HANDLER, INSERTED HAMMER	2	2	4
5120-00-903-8553	HANDLER, INSERTED HAMMER	2	2	4

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N4637</u>	<u>N4737</u>	<u>TOTAL</u>
5120-00-903-8555	HANDLER, INSERTED HAMMER	2	2	4
5120-00-915-4588	INSTALLING & REMOVING	2	2	4
5120-00-937-5438	INSTALLING TOOL, PLATE	2	2	4
5120-00-965-0616	STUD REMOVER	2	2	4
5120-00-023-1600	REMOVER & INSTALLER	2	2	4
5120-00-053-4158	SOCKET, WRENCH ATTACHMENT	2	2	4
5120-00-053-4159	SOCKET, WRENCH ATTACHMENT	2	2	4
5120-01-055-1308	SOCKET, WRENCH ATTACHMENT	2	2	4
5120-01-056-0871	SOCKET, SET ATTACHMENT	2	2	4
5120-01-068-5642	SOCKET, WRENCH	2	2	4
5120-01-074-7556	CROWFOOT ATTACHMENT	2	2	4
5120-01-074-7557	CROWFOOT ATTACHMENT	2	2	4
5120-01-079-8032	SOCKET WRENCH ATTACHMENT	2	2	4
5120-01-079-8033	SOCKET WRENCH ATTACHMENT	2	2	4
5120-01-081-8058	SOCKET, WRENCH ATTACHMENT	2	2	4
5120-01-101-1943	SOCKET WRENCH ATTACHMENT	2	2	4
5120-01-104-5346	SOCKET WRENCH ATTACHMENT	2	2	4
5120-01-112-0564	SOCKET, WRENCH	2	2	4
5120-01-113-9559	WRENCH, BOX	2	2	4
5120-01-113-9560	WRENCH, BOX	2	2	4
5120-01-115-3563	SOCKET, WRENCH	2	2	4
5120-01-122-3851	WRENCH, TORQUE	2	2	4
5120-01-122-8359	CROWFOOT ATTACHMENT	2	2	4
5120-01-131-0139	TOOL CONTACT EXTRACTOR	2	2	4
5120-01-163-4894	INSTALLER SPRING	2	2	4
5120-01-163-4964	WRENCH BOX	2	2	4
5120-01-178-5351	WRENCH BOX	2	2	4
5120-01-187-3624	PULLER, PULLEY CRANK	2	2	4
5130-00-236-3979	SOCKET, WRENCH	2	2	4
5180-00-921-5771	TOOL KIT, CRIMPING	2	2	4
5180-00-929-1560	PULLER KIT STEERING	2	2	4
5210-00-223-9191	GAGE, THICKNESS	2	2	4
5210-00-267-3371	DIVIDERS, MECHANICAL	2	2	4
5210-00-529-1205	GAGE, WHEEL ALIGNMENT	2	2	4
5210-00-554-7134	CALIPER SET, MICRO	2	2	4
8415-00-268-7859	GLOVES, WELDERS	2	2	4

**MEWSS SPECIAL TOOLS
2D THROUGH 4TH ECHELON
ELECTRONIC MAINTENANCE
1ST AND 2D RADIO BATTALION**

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N4637</u>	<u>N4737</u>	<u>TOTAL</u>
OXIM4A	WRENCH 4 MM	2	2	4
TH 2256	MANUAL, RACAL	2		4
10560726	LIFTING DEVICE MAST	2	2	4
BT-33-86F20-50	GAGE BELT TENSION	2	2	4
2900251210	TRANSFORMER	2		2
4310-00-752-9633	COMPRESSOR UNITREC	2	2	4
4720-00-005-7369	HOSE ASSEMBLY ,NONMETALIC	2	2	4
4940-00561-1002	HEATER,GUN TYPE, ELECTRIC	2		2
5120-00-079-4599	INSERTER, ELECTRIC	2	2	4
5120-00-177-7065	WRENCH, TORQUE	2	2	4
5120-00-203-4809	WRENCH, OPEN END	2	2	4
5120-00-203-4810	WRENCH, OPEN END	2	2	4
5120-00-203-4815	WRENCH, OPEN END	2	2	4
5120-00-221-7957	HANDLE, SOCKET WRENCH	2	2	4
5120-00-223-1010	PNCH, DRIVE PIN	2	2	4
5120-00-223-7396	PLIERS, SLIP JOINT	2		2
5120-00-224-3103	WRENCH OPEN & BOX	2	2	4
5120-00224-3159	WRENCH, OPEN END	2	2	4
5120-00-224-3160	WRENCH OPEN & BOX	2	2	4
5120-00-224-3163	WRENCH, OPEN & BOX	2	2	4
5120-00-224-9219	ADAPTER SOCKET WRENCH	2	2	4
5120-00-227-7338	SCREWDRIVER FLAT TIP	2	2	4
5120-00-228-9516	WRENCH, BOX & OPEN	2	2	4
5120-00-236-2140	SCREWDRIVER, FLAT TIP	2	2	4
5120-00-240-8702	ADAPTER SOCKET WRENCH	2	2	4
5120-00-240-8703	ADAPTER SOCKET WRENCH	2	2	4
5120-00-263-4142	SOCKET, SOCKET WRENCH	2	2	4
5120-00-277-2311	WRENCH, OPEN END	2	2	4
5120-00-277-8300	WRENCH, OPEN END	2	2	4
5120-00-277-8301	WRENCH, OPEN END	2	2	4
5120-00-278-1268	SCREWDRIVER, FLAT TIP	2	2	4
5120-00-293-0093	SOCKET, SOCKET WRENCH	2	2	4
5120-00-542-5681	WRENCH, TORQUE	2	2	4
5120-00-595-8996	WRENCH, SPANNER	2	2	4
5120-00-595-9099	WRENCH, SPANNER	2	2	4
5120-00-596-9311	CRIMPING TOOL, TERMINAL	2	2	4
5120-01-024-6147	SOCKET, WRENCH	2	2	4
5120-01-024-6150	SOCKET, WRENCH	2	2	4
5120-01-043-0776	SOCKET, WRENCH	2	2	4
5120-01-045-4884	SOCKET, WRENCH	2	2	4
5120-01-045-8564	SOCKET, WRENCH	2	2	4
5120-01-053-4158	SOCKET, SOCKET ATTACHMENT	2	2	4

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N4637</u>	<u>N4737</u>	<u>TOTAL</u>
5120-01-104-5347	SOCKET, WRENCH ATTACHMENT	2	2	4
5120-01-122-9392	WRENCH OPEN AND BOX	2	2	4
6130-00-006-5224	POWER SUPPLY	2	2	4
6685-01-075-9271	GAGE TEST	2	2	4
5120-00-892-6089	WRENCH, BOX & OPEN	2	2	4

**MEWSS SPECIAL TOOLS
3RD AND 4TH ECHELON
AUTO HULL AND A/C
FSSG AND BSSG**

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N3235</u>	<u>N3311</u>	<u>TOTAL</u>
A203	SEPARATOR TIEROD		2	2
407143	GAGE, MANIFOLD	2	2	4
916	CHECKER, OIL LEVEL	2	2	4
921	GAGE, OIL	2	2	4
407215	PUMP VACUUM	2	2	4
10518711	INSTALLER, SEAL		2	2
910	INSTALLER, FACE PLATE		2	2
457	PULLER, BODY, UNIVERSAL	2	2	4
917	PULLER, JAWS		2	2
414	REMOVER SEAL SEAT	2	2	4
10518910	TOOL, TIRE RING		2	2
443	REMOVER, PULLEYBEA	2	2	4
1059	INSTALLER PULLER	2	2	4
907	PROTECTOR, SEAL	2	2	4
311250W/4910	KNIFE THERMAL 50W		2	2
10559979	INSTALLER SEAL		2	2
10559978	INSTALLER BUSHING		2	2
901	HOLDER, CLUTCH	2	2	4
902	PULLER CLUTCH PLATE	2	2	4
906	REMOVER, INSTALLERS	2	2	4
J28479	START AIDE SCREW GAGE		2	2
J23679-A	TOOL KIT BLOWER		2	2
2010-01-145-4490	REMOVER BEARING		2	2
2320-01-282-7683	TRAINING PLATE ASSEMBLY		2	2
2815-00-705-9278	CAMSHAFT FOLLOWER HOLDING		2	2
2910-00-146-9619	TUBE SET		2	2
3460-00-725-5076	V-BLOCK		2	2
3460-00-937-5521	BLOCK LAPPING		2	2
4210-00-555-8837	EXTINGUISHER, FIRE		2	2
4210-00-889-1774	HOSE ASSEMBLY, NONMETALLIC		2	2
4310-00-752-9633	COMPRESSOR, UNIT, REMOVER		2	2
4910-00-019-3048	PAN, TESTING RADIATOR		2	2
4910-00-169-5805	INSTALLER GEAR		2	2
4910-00-254-5018	ADAPTER, VALVE		2	2
4910-00-254-5048	GRINDER VALVE		2	2
4910-00-273-3660	PLUG SET		2	2
4910-00-456-7620	FIXTURE		2	2
4910-00-591-6632	REMOVER VALVE		2	2
4910-00-591-6633	INSTALLER CAMSHAFT		2	2
4910-00-591-6634	STUD VALVE		2	2
4910-00-591-6640	EXPANDER SEAL		2	2
4910-00-603-8925	INSTALLER INSERT		2	2

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N3235</u>	<u>N3311</u>	<u>TOTAL</u>
4910-00-736-1371	INSTALLER GEAR		2	2
4910-00-767-0218	TEST STAND, AUTOMATIC		2	2
4910-00-779-6078	INSTALLER BEARING		2	2
4910-00-779-7308	SPACER		2	2
4910-00-779-7315	INSTALLER & REMOVER BEARIN		2	2
4910-00-950-3119	TESTER, FREENESS		2	2
4910-01-127-7959	SHIELD, TURBOPROP		2	2
4910-01-130-8227	MASTER CALIBRATOR		2	2
4910-01-143-4362	TESTSET DIESEL		2	2
4910-01-150-954	PLATE MOUNTING		2	2
4910-01-162-0550	FIXTURE PROPELLOR DRIVE		2	2
4910-01-163-4856	TOOL PRESS		2	2
4910-01-163-4857	TOOL PRESS SET		2	2
4910-01-163-4882	FIXTURE HOLDING		2	2
4920-01-281-3087	HOSE ASSEMBLY		2	2
4933-01-146-7109	ACCUMULATOR CHARGING		2	2
4940-00-956-6303	REFLECTOR	2	2	4
4940-01-148-7876	SHOP EQUIPMENT FUEL		2	2
4940-01-289-2396	GAGE ASSEMBLY HYDRAULIC		2	2
5120-00-016-6382	TURRET HEAD ASSEMBLY		2	2
5120-00-019-5232	SOCKET		2	2
5120-00-061-8542	HAMMER, HAND 12 OZ.		2	2
5120-00-061-8545	HAMMER, HAND 1.5		2	2
5120-00-061-8546	HAMMER, HAND 2		2	2
5120-00-079-4599	INSERTER, ELECTRICAL		2	2
5120-00-113-3616	HAMMER, HAND 4		2	2
5120-00-127-7757	TOOL RETAINER		2	2
5120-00-132-1979	INSERTER, ELECTRIC		2	2
5120-00-132-2109	PUSH ROD ADJUSTER SET		2	2
5120-00-132-6913	CRIMPING TOOL		2	2
5120-00-133-0097	REMOVER, ELECTRIC		2	2
5120-00-165-3912	CRIMPING TOOL, TERMINAL		2	2
5120-00-169-2986	MULTIPLIER, TORQUE		2	2
5120-00-169-5806	INSTALLER SEAL		2	2
5120-00-177-6967	INSERTER, ELECTRIC		2	2
5120-00-177-7065	WRENCH, TORQUE		2	2
5120-00-181-6760	CROWFOOT ATTACHMENT		2	2
5120-00-184-8397	CROWFOOT ATTACHMENT		2	2
5120-00-184-8398	CROWFOOT ATTACHMENT		2	2
5120-00-184-8400	CROWFOOT ATTACHMENT		2	2
5120-00-184-8405	CROWFOOT ATTACHMENT		2	2
5120-00-184-8410	CROWFOOT ATTACHMENT		2	2
5120-00-184-8412	CROWFOOT ATTACHMENT		2	2
5120-00-187-7123	WRENCH, OPEN END		2	2
5120-00-187-7126	WRENCH, OPEN END		2	2
5120-00-189-7924	SOCKET, WRENCH		2	2
5120-00-189-7932	SOCKET, WRENCH		2	2

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N3235</u>	<u>N3311</u>	<u>TOTAL</u>
5120-00-189-7946	SOCKET, WRENCH		2	2
5120-00-189-7985	SOCKET, WRENCH		2	2
5120-00-203-4797	WRENCH, OPEN END		2	2
5120-00-203-4799	WRENCH, OPEN END		2	2
5120-00-203-4801	WRENCH, OPEN END		2	2
5120-00-203-4804	WRENCH, OPEN END		2	2
5120-00-203-4806	WRENCH, OPEN END		2	2
5120-00-203-4807	WRENCH, OPEN END		2	2
5120-00-203-4810	WRENCH, OPEN END		2	2
5120-00-203-4811	WRENCH, OPEN END		2	2
5120-00-203-4814	WRENCH, OPEN END		2	2
5120-00-203-4815	WRENCH, OPEN END		2	2
5120-00-221-7063	SCRIBER, MACHINIST		2	2
5120-00-223-1010	PUNCH, DRIVE PIN		2	2
5120-00-223-7396	PLIERS, SLIP JOINT		2	2
5120-00-224-3156	WRENCH, OPEN END BOX		2	2
5120-00-224-3158	WRENCH, OPEN & BOX		2	2
5120-00-228-9516	WRENCH, BOX & OPEN		2	2
5120-00-229-2772	CROWFOOT ATTACHMENT		2	2
5120-00-229-2773	CROWFOOT ATTACHMENT		2	2
5120-00-235-5870	SOCKET, WRENCH		2	2
5120-00-239-0035	DRIFTPIN		2	2
5120-00-239-0038	PUNCH, DRIVE PIN		2	2
5120-00-240-8702	ADAPTER, SOCKET, WRENCH		2	2
5120-00-240-8703	ADAPTER SOCKET WRENCH		2	2
5120-00-241-3523	DRIFTPIN		2	2
5120-00-242-3351	SOCKET, WRENCH		2	2
5120-00-242-3908	HAMMER, HAND, BRASS HEAD		2	2
5120-00-243-7338	SOCKET WRENCH, ATTACHMENT		2	2
5120-00-243-7345	SOCKET WRENCH		2	2
5120-00-263-4144	SOCKET, WRENCH		2	2
5120-00-264-3795	WRENCH, ADJUSTABLE		2	2
5120-00-277-1322	WRENCH, OPEN END		2	2
5120-00-277-4243	WRENCH, PLIER		2	2
5120-00-277-4244	WRENCH, PLIER		2	2
5120-00-277-4251	SOCKET, SOCKET WRENCH		2	2
5120-00-277-7025	WRENCH, OPEN END		2	2
5120-00-277-8300	WRENCH, OPEN END		2	2
5120-00-277-8301	WRENCH, OPEN END		2	2
5120-00-277-8303	WRENCH, BOX		2	2
5120-00-288-6468	WRENCH, SPANNER		2	2
5120-00-288-6578	INSERTER & REMOVER		2	2
5120-00-288-7713	PULLER, MECHANICAL		2	2
5120-00-293-1005	CROWFOOT ATTACHMENT		2	2
5120-00-293-1283	CROWFOOT ATTACHMENT		2	2
5120-00-293-1652	CALIPER MICROMETER		2	2
5120-00-293-3399	MALLET, RUBBER		2	2

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N3235</u>	<u>N3311</u>	<u>TOTAL</u>
5120-00-308-3809	REPAIR TOOL, PLANE		2	2
5120-00-367-7378	FIXTURE SETTING		2	2
5120-00-402-9619	INDICATOR MAG		2	2
5120-00-430-8889	WRENCH, TORQUE		2	2
5120-00-449-8083	WRENCH, ADJUSTABLE		2	2
5120-00-473-6320	HANDLE, EXTENSION WRENCH		2	2
5120-00-483-8383	CROWFOOT, ATTACHMENT		2	2
5120-00-490-4282	PULLER, MECHANICAL		2	2
5120-00-494-1846	TOOL PISTON		2	2
5120-00-516-4979	SOCKET WRENCH ATTACHMENT		2	2
5120-00-517-7021	CROWFOOT, ATTACHMENT		2	2
5120-00-517-7021	CROWFOOT, ATTACHMENT		2	2
5120-00-517-8096	GAGE, THICKNESS		2	2
5120-00-541-4071	CROWFOOT ATTACHMENT		2	2
5120-00-554-7292	WRENCH, TORQUE		2	2
5120-00-555-2353	SOCKET WRENCH ATTACHMENT		2	2
5120-00-585-2383	HAMMER, HAND		2	2
5120-00-585-8202	PACK, HAMMER, INSERT		2	2
5120-00-595-8213	CROWFOOT, ATTACHMENT		2	2
5120-00-595-8424	REMOVER, BEARING		2	2
5120-00-595-9069	WRENCH, TORQUE		2	2
5120-00-595-9305	PULLER, MECHANICAL		2	2
5120-00-595-9531	PUNCH, ALIGNING		2	2
5120-00-596-0934	SOCKET WRENCH ATTACHMENT		2	2
5120-00-596-0938	SOCKET WRENCH ATTACHMENT		2	2
5120-00-596-1072	FACE, HAMMER, INSERT		2	2
5120-00-596-8511	SOCKET WRENCH ATTACHMENT		2	2
5120-00-596-9313	CRIMPTOOL, TERMINAL		2	2
5120-00-629-9781	ALIGNMENT STUDS FLYWHEEL		2	2
5120-00-640-6365	WRENCH, TORQUE		2	2
5120-00-677-2255	LIFTER		2	2
5120-00-677-2259	HANDLE INSTALLER		2	2
5120-00-683-8597	SOCKET WRENCH ATTACHMENT		2	2
5120-00-699-3589	PUNCH, DRIVE PIN		2	2
5120-00-709-4072	HANDLE, SOCKET WRENCH		2	2
5120-00-731-2862	CLAMP, PLIERS		2	2
5120-00-733-8888	COMPRESSOR VALVE		2	2
5120-00-737-7964	WRENCH, OPEN END		2	2
5120-00-740-3345	REMOVAL GEAR		2	2
5120-00-752-9755	PLIERS, RETAINING		2	2
5120-00-781-7891	INSTALLING TOOL PLATE		2	2
5120-00-872-6015	ALIGNMENT STUD		2	2
5120-00-892-5625	PLIERS, RETAINING		2	2
5120-00-892-6089	WRENCH, BOX & OPEN		2	2
5120-00-901-8651	COMPRESSOR RING		2	2
5120-00-902-0089	HAMMER, HAND, 3 COPPER		2	2
5120-00-903-8545	HANDLER, INSERTED HAMMER		2	2

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N3235</u>	<u>N3311</u>	<u>TOTAL</u>
5120-00-903-8553	HANDLER, INSERTED HAMMER		2	2
5120-00-903-8555	HANDLER, INSERTED HAMMER		2	2
5120-00-910-7868	HAMMER, SLIDING		2	2
5120-00-915-4588	INSTALLING & REMOVING		2	2
5120-00-918-0587	EXPANDER		2	2
5120-00-936-4377	INSTALLER SEAL		2	2
5120-00-937-5438	INSTALLING TOOL, PLATE		2	2
5120-00-937-6139	RMV, IMPELLER		2	2
5120-00-937-6140	RMV, LINER		2	2
5120-00-937-7272	TESTER AUXILIARY		2	2
5120-00-965-0616	STUD REMOVER		2	2
5120-00-999-8618	CLAMP, LINER		2	2
5120-01-016-8712	WRENCH, BOX & OPEN		2	2
5120-01-023-1600	REMOVER & INSTALLER		2	2
5120-01-026-9869	SOCKET, WRENCH		2	2
5120-01-045-4884	SOCKET, WRENCH		2	2
5120-01-048-2158	BAR, STUD ASSEMBLY		2	2
5120-01-048-3127	INSTALLER, VALVE		2	2
5120-01-048-3128	REMOVER VALVE PIN		2	2
5120-01-048-9917	TOOL ADJUSTING		2	2
5120-01-053-4158	SOCKET, WRENCH ATTACHMENT		2	2
5120-01-053-4159	SOCKET, WRENCH ATTACHMENT		2	2
5120-01-054-0188	PULLER, BEARING		2	2
5120-01-054-4001	LIFTER, SUPPORT		2	2
5120-01-054-4044	BAND, CENTERING		2	2
5120-01-054-4047	GAGE CONVERTER		2	2
5120-01-054-4048	HANDLE DRIVER		2	2
5120-01-054-4049	INSTALLER, DUST SHIELD		2	2
5120-01-054-4050	INSTALLER RING		2	2
5120-01-054-4052	INSTALLER BEARING		2	2
5120-01-054-4053	INSTALLER PLUG		2	2
5120-01-054-4054	INSTALLER BEARING		2	2
5120-01-054-4056	LIFTER SUPPORT		2	2
5120-01-054-4057	LIFTER, GEAR		2	2
5120-01-054-4058	RETAINER RING		2	2
5120-01-054-7221	COMPRESSOR SPRING		2	2
5120-01-055-1308	SOCKET, WRENCH ATTACHMENT		2	2
5120-01-056-0871	SOCKET, SET ATTACHMENT		2	2
5120-01-068-5642	SOCKET, WRENCH		2	2
5120-01-074-7556	CROWFOOT ATTACHMENT		2	2
5120-01-074-7557	CROWFOOT ATTACHMENT		2	2
5120-01-079-8032	SOCKET WRENCH ATTACHMENT		2	2
5120-01-079-8033	SOCKET WRENCH ATTACHMENT		2	2
5120-01-081-8058	SOCKET, WRENCH ATTACHMENT		2	2
5120-01-101-1943	SOCKET WRENCH ATTACHMENT		2	2
5120-01-104-5346	SOCKET WRENCH ATTACHMENT		2	2
5120-01-108-9648	WRENCH SPECIAL		2	2

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N3235</u>	<u>N3311</u>	<u>TOTAL</u>
5120-01-112-0564	SOCKET, WRENCH		2	2
5120-01-112-2165	HAMMER, SLID TY		2	2
5120-01-112-8318	SOCKET, WRENCH		2	2
5120-01-112-9532	WRENCH, TORQUE		2	2
5120-01-113-9559	WRENCH, BOX		2	2
5120-01-113-9560	WRENCH, BOX		2	2
5120-01-115-1161	INSTALLER SHIFT SEAL		2	2
5120-01-115-3563	SOCKET, WRENCH		2	2
5120-01-118-6264	REMOVER SHIFT SEAL		2	2
5120-01-122-1179	INSTALLER, GOVENOR		2	2
5120-01-122-3851	WRENCH, TORQUE		2	2
5120-01-122-8359	CROWFOOT ATTACHMENT		2	2
5120-01-131-0139	TOOL CONTACT EXTRACTOR		2	2
5120-01-132-5447	FIXTURE LIFTING		2	2
5120-01-132-5448	INSTALLER, BEARING		2	2
5120-01-132-5449	FIXTURE, SELECTIVE		2	2
5120-01-132-5465	BELLVILLE ASSEMBLY		2	2
5120-01-132-5466	INSTALLER SEAL		2	2
5120-01-132-5470	INSTALLER, BEARING		2	2
5120-01-141-9459	INSTALLER, BEARING		2	2
5120-01-160-8219	WRENCH, PIPE		2	2
5120-01-160-8865	INSTALLING TOOL		2	2
5120-01-165-1935	REMOVER SEAT		2	2
5120-01-166-1881	REMOVER SHAFT		2	2
5120-01-166-5167	INSTALLER VALVE GUARD		2	2
5120-01-169-5300	ADAPTER GEAR		2	2
5120-01-170-1243	INSTALLER PLANETARY BUSHIN		2	2
5120-01-170-1244	INSTALLER PLANETARY BUSHIN		2	2
5120-01-170-1245	INSTALLER CONVERTER BUSHIN		2	2
5120-01-170-1245	INSTALLER CONVERTER BUSHIN		2	2
5120-01-170-4924	PROTECTOR SEAL RING		2	2
5120-01-170-4930	WRENCH SPANNER		2	2
5120-01-170-4931	INSTRUMENT OIL SEAL		2	2
5120-01-170-4932	ROD EXTENSION		2	2
5120-01-176-3893	REMOVER, PIN		2	2
5120-01-178-5351	WRENCH BOX		2	2
5120-01-257-8410	DIE SET CRIMPING TOOL		2	2
5130-00-629-9782	HONING SET		2	2
5180-00-219-8407	TOOL SET FUEL PUMP		2	2
5180-00-357-6917	PULLER KIT, UNIVERSAL		2	2
5180-00-921-5771	TOOL KIT, CRIMPING		2	2
5180-00-929-1560	PULLER KIT STEERING		2	2
5180-00-991-0697	PULLER KIT, UNIVERSAL	2	2	4
5180-01-038-0251	SERVICE, INJECTOR KIT		2	2
5180-01-048-2153	PULLER KIT, UNIVERSAL		2	2
5180-01-170-1246	REBUILD PLANETARY CARBURAT		2	2
5180-01-179-1058	TOOL KIT, TURBO		2	2

<u>NSN/PN</u>	<u>NOMENCLATURE</u>	<u>N3235</u>	<u>N3311</u>	<u>TOTAL</u>
5210-00-023-4798	GAGE SLED DIAL		2	2
5210-00-116-1631	GAGE FEELER		2	2
5210-00-223-9191	GAGE, THICKNESS		2	2
5210-00-264-6400	STRAIGHT EDGE		2	2
5210-00-267-3371	DIVIDERS, MECHANICAL		2	2
5210-00-494-1738	ATTACHMENT BALL		2	2
5210-00-529-1205	GAGE, WHEEL ALIGNMENT		2	2
5210-00-542-4602	GAGE DEPTH MICROMETER		2	2
5210-00-554-7134	CALIPER SET, MICRO		2	2
5210-00-869-0466	MAGNET CHLDR DIAMETER		2	2
5210-00-937-7285	TOOL MEASURING		2	2
5210-00-990-3327	GAGE CONCENTRICITY		2	2
5210-01-030-4442	GAGE, THICKNESS		2	2
5210-01-054-0152	GAGE CLEARANCE		2	2
5210-01-061-4253	DETECTOR LEAK		2	2
5210-01-065-9030	GAGE CLEARANCE		2	2
5210-01-070-4543	GAGE CHECK		2	2
5210-01-134-0404	GAGE PLATE		2	2
5210-01-141-9457	GAGE CLEARANCE		2	2
5210-01-154-0151	GAGE CLEARANCE		2	2
5210-01-179-1039	ADAPTER, TORQUE, GAGE		2	2
5210-01-245-9564	GAGE SET THICKNESS		2	2
5220-01-170-1247	GAGE CLEARANCE		2	2
5220-01-170-1250	GAGE, SNAP RING		2	2
5220-01-185-0217	GAGE PISTON		2	2
5220-01-187-3616	GAGE TIMING		2	2
5315-01-141-9458	GUIDE PIN SET		2	2
5315-01-151-1106	PIN, STRAIGHT THREAD		2	2
5340-01-171-2287	COVER ACCESS		2	2
5999-00-679-9547	CLIP ELECTRICAL		2	2
6130-00-006-5224	POWER SUPPLY		2	2
6230-00-729-9259	LIGHT EXTENSION		2	2
6635-01-170-5001	TESTER SPRING		2	2

APPENDIX H

USING UNIT SUPPORT EQUIPMENT AND COMPONENTS

<u>NAME</u>	<u>NOMENCLATURE</u>	<u>QUANTITY</u>	<u>TAMCN</u>
Direction Finder	AN/PRD-10	1	A05167G
HF Crypto	TSEC/KY-65	1	A80297G
VHF Crypto	TSEC-KY-57(2)	1	A80317G
COMSEC Device	TSEC/KYV-2	1	A80457G
Field Telephone	TA-838/TT	1	A23657G
Machine Gun	M240E1	1	E09617M
Grenade Launcher	M257	1	N/A
Rifles	M16A2(5)	5	E14412M
NBC Protective Mask	M17A2*	5	C22702E
(5) RBR, Canister Filter Type			
General Purpose Medium Tent	N/A	1	C64102F
Night Driving Scope	AN/VVS-2(V)1 M36-E2	2	E09477M

*M40 - When issued, TAMCN C52652EP

APPENDIX I

BASIC ISSUE ITEMS

<u>QTY</u>	<u>ITEM DESCRIPTION</u>	<u>NSN</u>
1	TIRE PUNCTURE REPAIR KIT	2640-00-922-6921
1	AXE, SINGLE BIT, 4 LBS	5110-00-293-2336
1	SHOVEL, HAND	5120-00-293-3336
1	SAW, HAND, BOW-TYPE, 36 IN.	5110-00-340-3276
1	BAR, CROW, PINCH PT., 5 FT.	5120-00-224-1390
1	CABLE, TOW	4010-00-767-3149
1	HANDLE, SOCKET WRENCH	5120-00-236-7590
1	EXTENSION, 36 IN.	5120-00-473-6320
1	CABLE, SLAVE	2590-00-148-7961
1	FLAG SET, M238	8345-00-375-0223
1	REFLECTOR, HIGHWAY HAZARD	9905-00-148-9546
1	PADLOCK, W/KEY	5340-00-682-1645
1	BAG, PAMPHLET	2540-00-670-2459
1	BINDER, LOG-BOOK	7510-00-889-3494
1	BAG, TOOLS	5140-00-473-6256
1	WRENCH, OPEN END (1/2 X 9/16)	5120-00-187-7124
1	WRENCH, ADJUSTABLE, 12 IN	5120-00-264-3796
1	PLIERS, SLIP JOINT, 8 IN.	5120-00-223-7397
1	SCREWDRIVER, FLAT-TIP, 12 IN.	5120-00-278-1276
1	SCREWDRIVER, FLAT TIP, 8 IN.	5120-00-237-6985
1	SCREWDRIVER, FLAT-TIP, 3 IN	5120-00-287-2504
1	SCREWDRIVER, CROSS-TIP, #2	5120-00-234-8913
1	HEX KEY, 8 MM	5120-01-045-4893
1	SOCKET, 22 MM	5120-00-263-4139
1	CARRIER, WIRE CUTTER	5140-00-261-4994
1	WIRE CUTTER	5110-00-595-8229
1	GREASE GUN	4930-00-253-2478
1	HAMMER, 1.5 LBS, BALL-PEEN	5120-00-187-1033
1	ADAPTER, GREASE GUN	4930-00-288-1511
1	SOCKET, WHEEL NUT, 24 MM	5120-00-287-4153
1	GAGE, TIRE PRESSURE	4910-00-204-2644
1	FUNNEL, FLEXIBLE NECK	7240-00-559-7364
1	OILER, HAND PUMP	4930-00-262-8868
1	FLASHLIGHT, SIGNALING	6230-00-264-8261
1	SPOUT, CAN, FLEX	7240-00-177-6154
1	JACK, HYDRAULIC, HAND (12 TON)	5120-00-224-7330
2	PIN, STRAIGHT, TOW CABLE	5315-00-862-2683
2	PIN, LOCK, TOW CABLE	5315-00-598-5808
1	BOX, SPARE-BULB	2590-00-906-4741
1	ELECTRONIC TOOL KIT TK-105G	5180-00-610-8177

APPENDIX J

DISTRIBUTION SCHEDULE FOR MANUALS

The following publications are required in support of the MEWSS: (Using units are responsible for requisitioning the below listed manuals not currently on hand.)

TM NUMBER	TITLE	PCN
MEWSS-SPECIFIC PUBLICATIONS		
TM 09999A-14/1 Volume I	System Manual, Mobile Electronic Warfare Support System, AN/MLQ-36	TBD
TM 09999A-14/1 Volume II, Part I	System Manual, Organizational Maintenance, Mobile Electronic Warfare Support System, AN/MLQ-36	TBD
TM 09999A-14/1 Volume II, Part II	System Manual, Intermediate Maintenance, Mobile Electronic Warfare Support System, AN/MLQ-36	TBD
LI 09999A-12	Lubrication Instructions, Mobile Electronic Warfare Support System, AN/MLQ-36	TBD
TBD	MEWSS Operator's Handbook	TBD
SL-3-09999A (Interim)	Mobile Electronic Warfare Support System, AN/MLQ-36	TBD
ELECTRONIC SUITE PUBLICATIONS		
TM 08987A/08988A-13/1	Operator's and Organizational Maintenance Manual (RJS 3100-501 AN/ULQ-19(V))	18408689300
TM 08987A/09099A-13/1	Operator's Manual for RJS 3100	18408789300
TBD	Handbook for RJS 3100 and 3101, 12.5 kHz Variant	TBD
Racal-Tacticom Ltd	System Manual for RJS 3100-501	TBD
Racal-Tacticom Ltd	User Handbook for PRM 4090K VHF Transmitter-Receiver	TBD
SL-3-08988A	Jamming System Comm, AN/ULQ-19(V)2	1230898800
Racal-Tacticom Ltd	TM for PRM 4090C and PRM 4090S VHF Transmitter-Receiver	TBD
Racal-Tacticom Ltd	TM for ECM Display and Control Unit MA 1112	TBD
Racal-Tacticom Ltd	TM for Miniature Printer MA 4233	TBD

TM NUMBER	TITLE	PCN
TH 1204 Racal-Tacticom Ltd	TM for 100-Watt RF Power Amplifier TA 4093	TBD
Racal-Tacticom Ltd	TM for Vehicle Interface Unit MA 1017	TBD
TH 3646 Racal-Tacticom Ltd	TM for Tx/Rx Switch and Supply Regulator MA 1019	TBD
Racal-Tacticom Ltd	TM for Interconnecting Box MA 6722	TBD
WOH 6014 Racal-Tacticom Ltd	TM for LT Distribution Box MA 4003D, MA 4003DX, MA 4003E	TBD
Racal-Tacticom Ltd	TM for Antenna Selection Switch SU 361	TBD
Racal-Tacticom Ltd	TM for ECM Display	TBD
Racal-Tacticom Ltd	Assembly Instructions for VHF Log Periodic Antenna RA 943	TBD
TH 2056 Racal-Tacticom Ltd	TM for VHF Antenna Matching Unit VRA 4092	TBD
	TM for Two-Radio Interconnection Box, BCC 402A	TBD
	TM for Two-Radio Personnel Communications Control, BCC 410A	TBD
Racal-Tacticom Ltd	TM for Antenna Matching Unit MA 728M	TBD
TM 08709A-10/1-1	Operator's Pocket Guide, AN/PRD-10	TBD
TM 08709A-10/1-2	Operator's Manual, AN/PRD-10	18407988600
TM 08709A-20-2	Organizational Maintenance Manual, AN/PRD-10	18407988700
TM 08709A-20P/4	Organizational Maintenance Repair Parts and Special Tools List, AN/PRD-10	TBD
TM 08709A-34P/5	Direct Support and General Support Maintenance Repair Parts and Special Tools List, AN/PRD-10	18408180100
TM 08709A-34/3-1	Direct Support and General Support, AN/PRD-10	18407988800
TM 08709A-34/3-2	Maintenance Manual, AN/PRD-10	18408180000
Watkins-Johnson	Instructional Manual for VHF/UHF Receiver, WJ-8618B	50090100700

TM NUMBER	TITLE	PCN
Watkins-Johnson	Appendix Manual for VHF/UHF Receiver, WJ-8618B	50090100800
TM 11-2300-476-14&P**	Operator's Organizational Support, and General Support Maintenance Manual for Installation Kits, Electric Equipment, AN/GRC-213 (variants) for General Purpose, Wheeled, or Tracked Vehicles	TBD
TM 2840-14&P/1	SD-5 Compressor Service Manual	18202340000
TM 11-5805-650-2	Operator's and Organizational Maintenance Manual, Telephone Set, TA-838/TT and TA-838A/TT	35158483550
TM 11-5810-320-13&P	Operator's, Organizational and Direct Support Maintenance Manual for Installation Kits, Electronic Equipment Used with Communications Security Equipment, TSEC/KY-65	35158582000
TM 11-5810-280-12&P	Operator's and Organizational Maintenance for Communications Security Equipment, TSEC/KY-65	35158552000
TM 11-5810-312-12-1	Operator's and Organizational Maintenance Manual, Installation Kits for Communications Security Equipment, TSEC/KY-57, Volume 1	35158567100
TM 11-5810-256-OP3	Operator's Manual, Communications, TSEC/KY-57	35158541300
TM 11-5810-256-12	Security Equipment, TSEC/KY-57	35158542000
TM 11-5820-401-20-1 TM 11-5820-401-20-2	Operator's and Organizational Maintenance Manual for Radio Sets AN/VRC-12, -44, -45, -46, -47, -48, -49, -53, -54, and -55, Mounting MT-1029/VRC and MT-1898/VRC, Antenna AT-912/VRC; Control Frequency Selector C-2742/VRC and Control Radio Set C-2299/VRC	35159381100 35159381200
TM 11-5820-401-34P	Intermediate Maintenance Manual, Radio Set, RT-524B/VRC	35159381800
TM 11-5820-498-12	Radio Sets AN/VRC-12, AN/VRC-64, AN/GRC-125, AN/GRC-160, and Amplifier Power Supply Group	35159601500

TM NUMBER	TITLE	PCN
TM 11-5820-401-20P	Organizational Maintenance Manual Repair Parts Manual Radio Sets, AN/VRC-12	35159381000
TM 06827A-10/1	Operator's Manual for Radio Set, AN/PRC-68	18406826000
TM 06827A-23/2	Operator's, Organizational and Direct Support Maintenance Manual for Radio Set, AN/PRC-68	18406827000
SL-4-06827A	Repair Parts List, AN/PRC-68	12406827000
DMWR 11-5820-882**	Depot Maintenance Work Requirement, AN/PRC-68	TBD
TM 07748A-12/1	Operator's and Organizational Maintenance Instructions, Radio Set, AN/PRC-104	18407525500
TM 11-5820-923-12**	Operator's and Organizational Maintenance Manual, Radio Set, AN/GRC-213	TBD
TM 11-5985-262-14	Manual for Antenna, AS-1729/VRC	35161832400
TM 5985-14&P/1	Technical Manual, UHF Multicoupler, MC-5002, 3D9-000173-02	18205898000
TM 08636A-14/1	Operator and Maintenance Instructions with Parts Breakdown, Intercommunications Set, AN/VIC-2(V)	18407983900
TM 6130-14&P/1	Component Maintenance Manual with Illustrated Parts List (Dynamic Load Responsive Static Inverter - Covering Model 2A 1000 -iG, 60 Hz) Manual No. 01-001-4902-0007	18206116000
MARINE CORPS LAV-25 PUBLICATIONS		
TM 08077A-14/1A	Installation, Operation and Maintenance Instructions, Power Supply, PP-7333/GRC	18407951000
SL-3-08594A	Components List for Light Armored Vehicle (LAV-25)	12308594000
TM 08594A-10/2	Operator's Manual, Automotive Hull	18407982100
LI 08594A-12/2	Lubrication Instructions, Automotive Hull	15708594200
TM 08594A-20/4	Organizational Maintenance, Vol I Automotive Hull, Vol II	18408110000 18408120000
SL-4-08594A	Repair Parts List, Automotive Hull, Vol I Transfer Case and Axle Differential, Vol II	12408594000 12408594100

TM NUMBER	TITLE	PCN
TM 08594A-34/9	Intermediate Maintenance, Vol I Automotive Hull Transfer Case and Axle Differential, Vol II	18407988200 18407988300
TM 11-5855-249-10	Operator's Manual, Viewer Driver's Night Vision, AN/VVS-2(V)1	35160463000
TM 11-5855-249-20	Organizational Maintenance, Viewer Driver's Night Vision, AN/VVS-2(V)1	35160464000
TM 11-5855-249-23	Second and Third Maintenance, Viewer Driver's Night Vision, AN/VVS-2(V)1	35160465000
TM 11-5855-249-23P	RPSTL, Viewer Driver's Night Vision, AN/VVS-2(V)1	35160467000
TM 8A192B-34&P/10	Intermediate Maintenance (including Repair Parts Lists) for Starter, Engine, Electrical	18407988400
TM 8A192B-34&P/11	Intermediate Maintenance (including Repair Parts Lists) for Alternator	18407988500
TM 8A191B-34/1	Direct Support and General Support Maintenance, for Transmission, Automatic	18418408800
SL-4-8A191B	Repair Parts List, Transmission, Automatic	12480191100
TM 8A192B-34&P/1	Direct and General Support Maintenance (including RPSTL) for Engine, Diesel: 6 cylinder, Turbocharged	18408900000
RELATED PUBLICATIONS		
TM 4700-15/1	Equipment Record Procedures	18000235000
SL-3-0134A	Components List, Filter Unit Gas Particulate, M6	12301341000
SL-3-08721A	Tool Kit, Armorer, Common LAV-25	12308721000
SL-3-08894A	Tool Kit, Organizational Maintenance, LAV-25, 2d Echelon	12308894000
SL-3-08895A	Tool Kit, Intermediate Maintenance, LAV-25, 3rd Echelon	12308895000
FM 3-87**	Nuclear, Biological, and Chemical Decontamination Operations	TBD
FM 5-20	Camouflage	32000504000

2C

TM NUMBER	TITLE	PCN
FM 9-207	Operation and Maintenance of Ordnance Materiel for Cold Weather (0 to -65° F)	32000950000
FM 20-22	Vehicle Recovery Operations	32002014500
FM 21-11	First Aid for Soldiers	32002116000
FMFM 3-3E	Radio Operator's Handbook	13900020600
FM 21-40	Chemical, Biological, Radiological and Nuclear Defense	32002130000
FM 31-70	Basic Cold Weather Manual	32003136000
FM 31-71	Northern Operations	32003138000
FM 31-100	Target Acquisition/Night Observation	32003190000
FM 43-2	Metal Body Repair and Related Operations	32004300000
FM 90-3	Desert Operations	32008300000
FM 90-6	Mountain Operations	32008340000
FM 90-13	River Crossing	32008375000
TM 3-220	Chemical, Biological and Radiological (CBR) Decontamination	34500024000
TM 3-1090-267-29P	Organizational Maintenance (including RPSTL) for Launcher, Grenade, Smoke: Screening 4 Tube, RP, M257	N/A
TM 3-4230-204-12&P	Operator's and Organizational Maintenance (including RPSTL) for Decontaminating Apparatus, Portable, DS2, ABC-M11	34500800000
TM 3-4240-241-12 W/C 1-2	Operator and Organizational Maintenance for M13A1 NBC System	34501063000
TM 3-4240-280-10	Operator's Manual: Mask: Chemical-Biological; Aircraft, ABC-M24 and Accessories and Mask, Chemical-Biological; Tank, M25/M25A1 and Accessories	34501112000
TM 3-4240-280-23&P	Organizational Maintenance for M25A1 Protective Face Mask	34501112500
TM 3-4320-204-2&P	Operator's and Organizational Maintenance Manuals with Parts List for ABC-M11 Portable Decontaminating Apparatus	34501440000
TM 3-6665-225-12	Operation of M42 Remote NBC Alarm	34501703300

TM NUMBER	TITLE	PCN
TM 9-214	Inspection, Care, and Maintenance for Anti-Friction Bearings	34902140000
TM 9-237	Operator's Manual for Welding Theory and Application	34902370000
TM 9-247	Materials Used for Cleaning, Preserving, Abrading, and Cementing Ordnance Material and Related Materials (including Chemicals)	34902470000
TM 08670A-10/1A	Operator's Manual, Machine Gun, M240E1	18408011000
TM 08670A-23/2A	Second and Third Maintenance Manual, Machine Gun, M240E1	18408011100
TM 08670A-23P/3A	RPSTL, Machine Gun, M240E1	18408011200
TM 9-1240-272-35	Field and Depot Maintenance for Mount, Periscope M119	34912508500
TM 9-1240-380-34	Direct Support and General Support Maintenance for Periscope M36 and M36E1	34912861000
TM 9-1240-380-34P	Direct Support and General Support Maintenance, Parts List for Periscope M36 and M36E1	34912862000
TM 9-1300-200	General Ammunition	34913290000
TM 9-1300-206	Care, Handling, Preservation, and Destruction of Ammunition	34913330000
TM 9-4910-456-14	Operator, Organizational, Direct Support and General Support Maintenance for Test Set, Generator and Voltage Regulator, Automotive	34949210000
TM 9-4910-593-12&P	Operator's and Organizational Maintenance (including RPSTL) for Towbar, Motor Vehicle	34949283000
TM 9-6140-200-14	Operator's, Organizational, Direct Support and General Support Maintenance Manual, Storage Batteries, Lead-Acid Type	34961401400
TM 43-0002-24	Destruction of Equipment to Prevent Enemy Use	36318254000
TM 43-0139	Painting Instructions for Field Use	36318290550

2D

TM NUMBER	TITLE	PCN
TM 750-244-5-1	Destruction of Conventional Ammunition and Improved Conventional Munitions to Prevent Enemy Use	37000301500
TB ORD 1032**	Description, Use, Bonding Techniques, and Properties of Adhesives	TBD
TB SIG 222	Solder and Soldering	32100350000
TO 36-1-40	Operation and Maintenance of Ordnance Material in Cold Weather	60000425000

** Publications will be procured and entered into the Marine Corps publications system.

APPENDIX K

ACRONYMS

BII	Basic Issue Item
BSSG	Brigade Service Support Group
CFTA	Canadian Force Training Activity
CG	Commanding General
CMC	Commandant of the Marine Corps
COMSEC	Communications Security
DDGM	Diesel Division, General Motors of Canada
DMISA	Depot Maintenance Interservice Support Agreements
DX	Direct Exchange Program
ECM	Electronic Countermeasures
ESM	Electronic Warfare Support Measures
EW	Electronic Warfare
FMF	Fleet Marine Force
FMFLANT	Fleet Marine Force, Atlantic
FMFPAC	Fleet Marine Force, Pacific
FSSG	Force Service Support Group
GFE	Government-Furnished Equipment
GFM	Government-Furnished Material
GVW	Gross Vehicle Weight
HQMC	Headquarters, Marine Corps
Hz	Hertz
ILSP	Integrated Logistics Support Plan
IM	Item Manager
IOC	Initial Operational Capability
kW	Kilowatt
LAV	Light Armored Vehicle
LCAC	Landing Craft Air Cushioned
LCM	Landing Craft Mechanized
LCU	Landing Craft Utility
LEM	Logistics Element Manager
LOB	Line of Bearing
MAGTF	Marine Air-Ground Task Force
MARES	Marine Automated Readiness Evaluation System
MCAS	Marine Corps Air Station
MCLBA	Marine Corps Logistics Base, Albany
MCO	Marine Corps Order

MCRDAC	Marine Corps Research, Development, and Acquisition Command
MEWSS	Mobile Electronic Warfare Support System
MFP	Materiel Fielding Plan
MHz	Megahertz
MOS	Military Occupational Specialty
MPS	Maritime Prepositioned Shipping
MTP	Manpower and Training Plan
N/A	Not Applicable
NATO	North Atlantic Treaty Organization
NBC	Nuclear, Biological, and Chemical
NSN	National Stock Number
OJT	On-the-Job Training
PCN	Publications Control Number
PDA	Principal Development Activity
PIP	Product Improvement Program
PM	Preventive Maintenance
PWR	Prepositioned War Reserve
QDR	Quality Deficiency Report
RadBn	Radio Battalion
ROC	Required Operational Capability
SAC	Stores Account Code
SIGINT	Signals Intelligence
SRI	Surveillance Reconnaissance Intelligence
STE/ICE	Support Test Equipment/Internal Combustion Engine
T/E	Table of Equipment
T/O	Table of Organization
TACOM	U.S. Army Tank and Automotive Command
TAMCN	Table of Authorized Material Control Number
TBD	To Be Determined
TM	Technical Manual
TMDE	Test Measurement and Diagnostic Equipment
VAC	Volts Alternating Current
VHF/UHF	Very High Frequency/Ultra High Frequency
WS/EM	Weapons System/Equipment Manager